Product datasheet
Characteristics

SSM1A430M7
solid state relay - DIN rail mount - input 90-280Vac, output 48-660Vac, 30A

Main

Range of product	Harmony Relay
Product or component type	Solid state relay
Device short name	SSM1
Number of phases	1 phase

Complementary

Mounting support	Symmetrical DIN rail
[In] rated current	30 A
Output voltage	48...660 V AC
[Uc] control circuit voltage	90...280 V AC
Contacts type and configuration	1 NO
Tightening torque	0.6...0.7 N.m for input 1.36...1.7 N.m for output
Connections - terminals	Screw terminals: 1 x 0.2...1 x 5.3 mm², (AWG 24...AWG 10) for input Screw terminals: 1 x 0.2...1 x 5.3 mm², (AWG 24...AWG 10) for output
Maximum capacitance	8 pF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	LED (green)input status:
Switching voltage	90 V AC turn-on 10 V AC turn-off
Input current	2…10 mA
Solid state output type	SCR output Zero voltage switching
Load current	0.15…30 A
Transient overvoltage	1200 V
Surge current	1200 A for 16.6 ms
Maximum voltage drop	<1.6 V on-state
Maximum I²t for fusing	6000 A².s for 8.3 ms

Maximum leakage current	1 mA off-state
DV/Dt	500 V/µs off-state at maximum voltage
Response time	10 ms (turn-on) 40 ms (turn-off)
Overvoltage category	III
Product weight	0.28 kg

Environment

Dielectric strength	4 kV AC for input/output 4 kV AC for input or output to case
Pollution degree	2
Standards	IEC 60950-1 CSA C22.2 No 14 UL 508
Product certifications	UL CSA EAC
Marking	CE EAC UL CSA
IP degree of protection	IP20
Ambient air temperature for operation	-40…80 °C
Ambient air temperature for storage	-40…125 °C

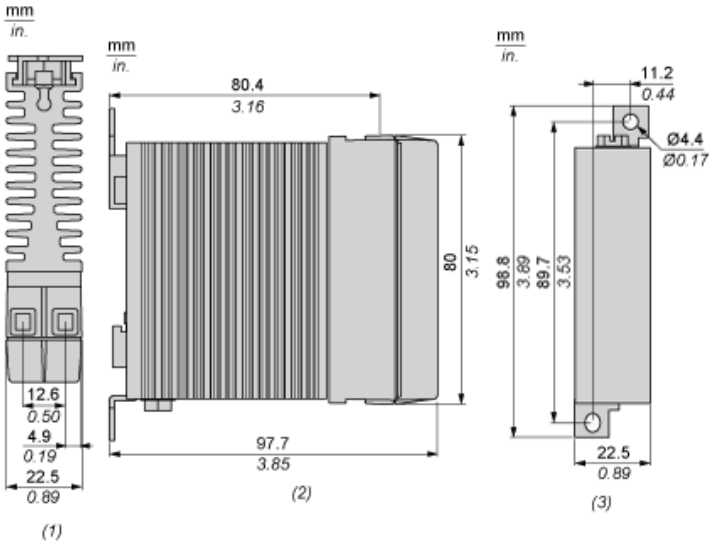
Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Contractual warranty

Warranty	18 months

Dimensions



(1) Top view

(2) Side view

(3) Front view

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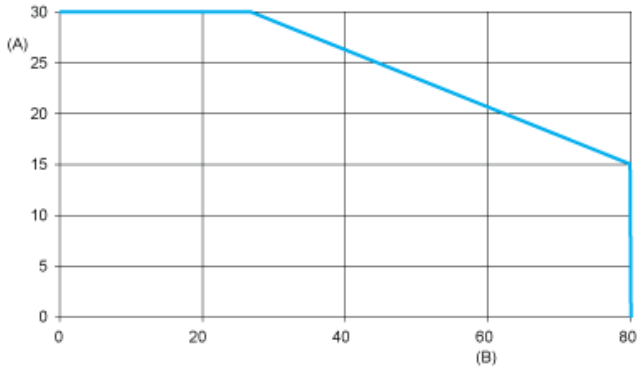
Derating Curves



A : Load Current (Amperes)
B : Ambient Temperature (°C)